

Patent Number(s): JP54135896-A

Title: Prepn. of polyester with good transparency and hue - by polycondensing bis(beta-hydroxyethyl)-terephthalate using antimony catalyst, adding organo-tin cpd. cobalt cpd. and alkali metal cpd.

Patent Assignee Name(s) and Code(s): NIPPON ESTER CO LTD (NPEC-C)

Derwent Primary Accession Number: 1979-86885B [48]

Patents Cited by Inventor: 0 **Citing Patents:** 0 **Articles Cited by Inventor:** 0

Patents Cited by Examiner: 0 **Articles Cited by Examiner:** 0

Abstract:

Polyester is prepd. by polycondensating bis(beta-hydroxyethyl)terephthalate using an Sb cpd. as catalyst.

The improvement comprises adding to the reaction system an organotin cpd. (e.g. dimethyltin oxide or trimethyltin chloride), a cobalt cpd. (e.g. CoCl₂ or cobalt acetate) and an alkali metal cpd. (e.g. hydroxide, methylate, ethylate carbonate, borate, formate, acetate or benzoate of Li, Na or K) in a ratio satisfying the formulae $1 \times 10^{-4} A$ 10×10^{-4} ; $0.01 B/A$ 0.2 ; $0.2 \times 10^{-4} C$ 2×10^{-4} and $0.1 D/A$ 3 . In the formulae, A, B, C, D = mol. of Sb, Sn, Co and alkali metal, respectively, per mol. of the acid component constituting the polyester).

Blue hue resulting from the cobalt cpd. is strengthened and a distinct blue colour can be obtd. unlike the blacky-blue colour obtd. by the use of the cobalt cpd. alone.

International Patent Classification: C08G-063/22

Derwent Class: A23 (Polyamides, polyesters, polycarbonates, alkyds)

Derwent Manual Code(s): A02-A07; A05-E04A; A08-M09

Patent Details:

Patent Number	Publ. Date	Main IPC	Week	Page Count	Language
JP54135896-A	22 Oct 1979		197948		

Priority Application Information and Date:

JP043563	13 Apr 1978
----------	-------------